MK-SINGLE DISC GRINDER

SINGLE DISC GRINDER

OWNER'S MANUAL

PARTS LIST &

OPERATING INSTRUCTIONS

⚠ CAUTION

READ SAFETY AND GENERAL INSTRUCTIONS CAREFULLY BEFORE USING SAW FOR THE FIRST TIME.

SERIAL NUMBER

YOU SHOULD RECORD THE SERIAL NUMBER OF YOUR STAND ON THIS OWNER'S MANUAL AND ON THE WARRANTY CARD, WHICH MUST BE SENT IN TO BE EFFECTIVE. BE SURE TO INCLUDE ALL PERTINENT INFORMATION REQUIRED.

⚠ WARNING

- Wear eye protection.
- Disconnect saw before servicing, when changing grinding wheels, and cleaning.
- Use tool only with smooth edge cutting wheels free of openings and grooves.
- Replace damaged grinding wheels before operating.

Part No. 158273
Revision 09/05

SAFETY INSTRUCTIONS FOR THE MK-SDG TILE SAW

Congratulations on your purchase of a MK-SDG. We are certain that you will be pleased with your purchase. MK Diamond takes pride in producing the finest construction power tools and diamond blades in the industry.

Operated correctly, your MK-SDG should provide you with years of service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your MK-SDG safely and correctly. Please take a few minutes to familiarize yourself with the MK-SDG by reading and reviewing this manual.

If you should have questions concerning your MK-SDG, please feel free to call our friendly customer service department at: 800 421-5830

Regards,

MK Diamond

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SAFETY

Read and follow all safety, operating and maintenance instructions. Failure to read and follow these instructions could result in injury or death to you or others. Failure to read and follow these instructions could also result in damage and/or reduced equipment life.

SAFETY MESSAGES:

Safety messages inform the user about potential hazards that could lead to injury, death and/or equipment damage. Each safety message will be preceded by one of the following (3) three words that identify the severity of the message.

⚠ DANGER Not following instructions WILL lead to DEATH or SERIOUS INJURY

⚠ WARNING Not following instructions COULD lead to DEATH or SERIOUS INJURY

⚠ CAUTION Not following instructions CAN lead to injury.

DAMAGE PREVENTION AND INFORMATION MESSAGES:

A Damage Prevention Message is to inform the user of important information and/or instructions that could lead to equipment or other property damage if not followed. Information Messages convey information that pertains to the equipment being used. Each message will be preceded by the word NOTE, as in the example below.

NOTE: Equipment and/or property damage may result if these instructions are not followed.

GENERAL SAFETY PRECAUTIONS AND HAZARD SYMBOLS:

In order to prevent injury, the following safety precautions and symbols should be followed at all times!

Safety Precautions:

⚠ READ OWNERS MANUAL BEFORE USE

Before using this equipment, ensure that the person operating this machine has read and understands all of the instructions in the manual. Precaution is the best insurance against accidents. Read and understand all safety precautions, messages, warnings and hazard symbols. You are responsible for your own safety.

⚠ KEEP GUARDS IN PLACE

Adhere to safety guidelines: ANSI American National Standards Institute, OHSA, or local Regulations. Never operate the saw with out the guards in place!

⚠ REMOVE ADJUSTING KEYS AND WRENCHES

Form a habit of checking to see that keys and adjusting wrenches are removed from the power tool before it is turned on.

⚠ KEEP WORK AREA CLEAN

Cluttered work areas and benches invite accidents.

⚠ DO NOT USE IN DANGEROUS PLACES

Do not use power tools in damp or wet locations nor expose them to rain. Always keep the work area well lighted.

⚠ KEEP CHILDREN AWAY

All visitors and children should be kept a safe distance from work area.

MAKE THE WORKSHOP KID PROOF

Make the workshops kid proof by using padlocks, master switches or by removing starter keys.

DO NOT FORCE THE TOOL

A power tool will do a job better and safer operating at the rate for which it was designed.

USE THE RIGHT TOOL

Do not force a tool or an attachment, to do a job that it was not designed to do.

USE THE PROPER EXTENSION CORD

If using an extension cord make sure it is in good condition. When using an extension cord, be sure to use one heavy enough to carry the electric current your product will draw. An undersized extension cord will cause a drop in line voltage that will result in a loss of power and overheating. TABLE 1, Page 9 shows the correct AWG size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

USE PROPER APPAREL

Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that may be caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

ALWAYS USE SAFETY GLASSES

Safety glasses should always be worn when working around power tools. In addition, a face, dust mask or respirator should be worn if a cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses and may not prevent eye injury-they are NOT safety glasses.

SECURE WORK

Clamps or a vise should be used to hold work whenever practical. Keeping your hands free to operate a power tool is safer.

DO NOT OVERREACH

Keep proper footing and balance at all times by not overreaching.

MAINTAIN TOOLS WITH CARE

Keep tools clean for the best and safest performance. Always follow maintenance instructions for lubricating, and when changing accessories.

DISCONNECT TOOLS

Power tools should always be disconnected before servicing or when changing accessories, such as blades, bits, cutters, and the like.

REDUCE THE RISK OF UNINTENTIONAL START

Make sure the ON/OFF switch is in the OFF position before plugging in a power tool.

SAFETY

⚠ USE RECOMMENDED ACCESSORIES

Consult the owner's manual for recommended accessories. Using improper accessories may increase the risk of personal or by-stander injury.

⚠ NEVER STAND ON THE TOOL

Serious injury could occur if a power tool is tipped, or if a cutting tool is unintentionally contacted.

⚠ CHECK FOR DAMAGED PARTS

Before using a power tool, check for damaged parts. A guard or any other part that is damaged should be carefully checked to determine it would operate properly and perform its intended function. Always check moving parts for proper alignment or binding. Check for broken parts and mountings and all other conditions that may affect the operation of the power tool. A guard, or any damaged part, should be properly repaired or replaced.

⚠ DIRECTION OF FEED

Always feed work into a blade or cutter against the direction of rotation. A blade or cutter should always be installed such that rotation is in the direction of the arrow imprinted on the side of the blade or cutter.

⚠ NEVER LEAVE A TOOL UNATTENDED

TURN POWER OFF - Do not leave a tool until it comes to a complete stop. Always turn a power tool OFF when leaving the work area, or, when a cut is finished.

CALIFORNIA PROPOSITION 65 MESSAGE:

⚠WARNING Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- **Lead, from lead-based paints**
- **Crystalline silica, from bricks and cement and other masonry products and**
- **Arsenic and chromium, from chemically treated lumber**

For further information, consult the following sources:

http://www.osha-slc.gov/sltc/silicarystalline/index.html
http://www.oehha.org/prop65/out_of_date/6022kLstA.html

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Hazard Symbols:

Electrical Shock

Never touch electrical wires or components while the engine is running. They can be sources of electrical shock which could cause severe injury or burns.

Rotating Parts

Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate the saw with covers, shrouds, or guards removed.

Over Speed

Never tamper with the governor components or settings to increase the maximum speed. Severe personal injury and damage to the engine or equipment can result if operated at speeds above maximum.

Explosive fuel

Gasoline is extremely flammable and its vapors can explode if ignited. Store gasoline only in approved containers, in well-ventilated, unoccupied buildings, away from sparks or flames. Do not fill the fuel tank while the engine is hot or running, since spilled fuel could ignite if it comes in contact with hot parts or sparks from ignition. Do not start the engine near spilled fuel. Never use gasoline as a cleaning agent.

Hot Parts

Engine components can get extremely hot from operation. To prevent severe burns, do not touch these areas while the engine is running or immediately after it is turned off. Never operate the engine with heat shields or guards removed.

Lethal Exhaust Gases

Engine exhaust gases contain poisonous carbon monoxide. Carbon monoxide is odorless, colorless, and can cause death if inhaled. Avoid inhaling exhaust fumes, and never run the engine in a closed building or confined area.

WARNING Sawing and drilling generates dust. Excessive airborne particles may cause irritation to eyes, skin and respiratory tract. To avoid breathing impairment, always employ dust controls and protection suitable to the material being sawed or drilled; See OSHA (29 CFR Part 1910.1200). Diamond Blades improperly used are dangerous. Comply with American National Standards Institute Safety Code, B7.1 and, Occupational Safety and Health Act covering Speed, Safety Guards, Flanges, Mounting Procedures, General Operating Rules, Handling, Storage and General Machine Conditions

SAFETY

ELECTRICAL REQUIREMENTS AND GROUNDING INSTRUCTIONS:

In order to prevent potential electrical shock and injury, the following electrical safety precautions and symbols should be followed at all times!

⚠ WARNING

In case of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- Do not modify the plug provided – if it will not fit the outlet; have the proper outlet installed by a qualified electrician
- Improper connections of the equipment-grounding conductor can result in a risk of electric shock. The equipment-grounding conductor is the insulated conductor that has an outer surface that is green, with or without yellow stripes. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded
- Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug
- Repair or replace a damaged or worn cord immediately

⚠ WARNING

This tool is intended for use on a circuit that has an outlet that looks like the one shown in Sketch A of Figure 1. The tool has a grounding plug that looks like the plug illustrated in Sketch A of FIGURE 1. A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in Sketch B, if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, and the like, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box.

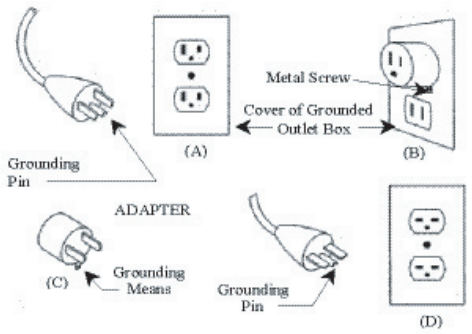


FIGURE 1

NOTE: Use of a temporary adapter is not permitted in Canada

⚠ WARNING

To reduce the risk of electrocution, keep all connections dry and off the ground.

A Ground Fault Circuit Interrupter (GFCI) should be provided on the circuit(s) or outlet(s) to be used for the Saw. Receptacles are available having built-in GFCI protections and may be used for this measure of safety.

When using an extension cord, the GFCI should be installed closest to the power source, followed by the extension cord and lastly, the saw.

To avoid the possibility of the appliance plug or receptacle getting wet, position the saw to one side of a wall mounted receptacle. This will prevent water from dripping onto the receptacle or plug. A “drip loop,” shown in FIGURE 2, should be arranged by the user to properly position the power cord relative to the power source.

The “drip loop” is that part of the cord below the level of the receptacle, or the connector, if an extension cord is used. This method of positioning the cord prevents the travel of water along the power cord and coming in contact with the receptacle.

If the plug or receptacle gets wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool. Then unplug and examine for presence of water in the receptacle.

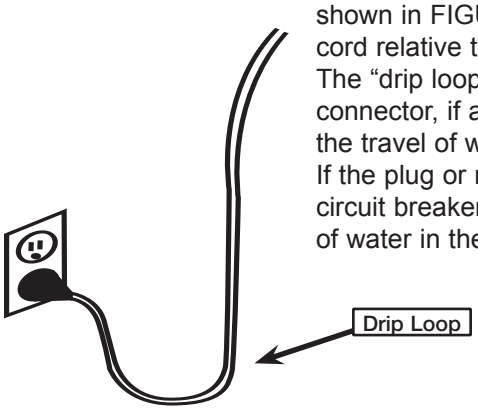


FIGURE 2

⚠ WARNING

Use only extensions cords that are intended for outdoor use. These extension cords are identified by a marking “Acceptable for use with outdoor appliances; store indoors while not in use.” Use only extension cords having an electrical rating not less than the rating of the product. Do not use damaged extension cords. Examine extension cords before using and replace if damaged. Do not abuse extension cords and do not yank on any cord to disconnect. Keep cords away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnection the product form the extension cord.

⚠ WARNING

To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch the plug with wet hands.

⚠ WARNING

Use of under size extension cords result in low voltage to the motor that can result in motor burnout and premature failure. MK Diamond warns that equipment returned to us showing signs of being run in a low voltage condition, through the use of undersized extension cords will be repaired or replaced totally at the customers expense. There will be no warranty claim.

To choose the proper extension cord,

- Locate the length of extension cord needed in TABLE 1 below.
- Once the proper length is found, move down the column to obtain the correct AWG size required for that length of extension cord.

Extension Cord Minimum Gage for Length				
Volts	Total Length of Cord in Feet			
220 V	25 ft.	50 ft.	100 ft.	150 ft.
	AWG	AWG	AWG	AWG
	10	10	Not Recommended	

TABLE 1

SINGLE DISC GRINDER SPECIFIC WARNINGS:

⚠ WARNING Wear eye protection.
Replace damaged grinding blades before operating.

SAFETY LABEL LOCATIONS

Safety and warning labels are located according to the figure below. The labels contain important safety information. Please read the information contained on each safety label. These labels are considered a permanent part of your saw. If a label comes off or becomes hard to read, contact MK Diamond or your dealer for a replacement

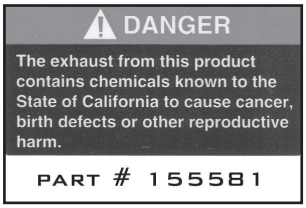
CAUTION
Overtensioning of belts will result in premature crank and/or bearing failure. Belts should slip before engine stalls.
PART # 155583
(B9)

(B10)

(B11)

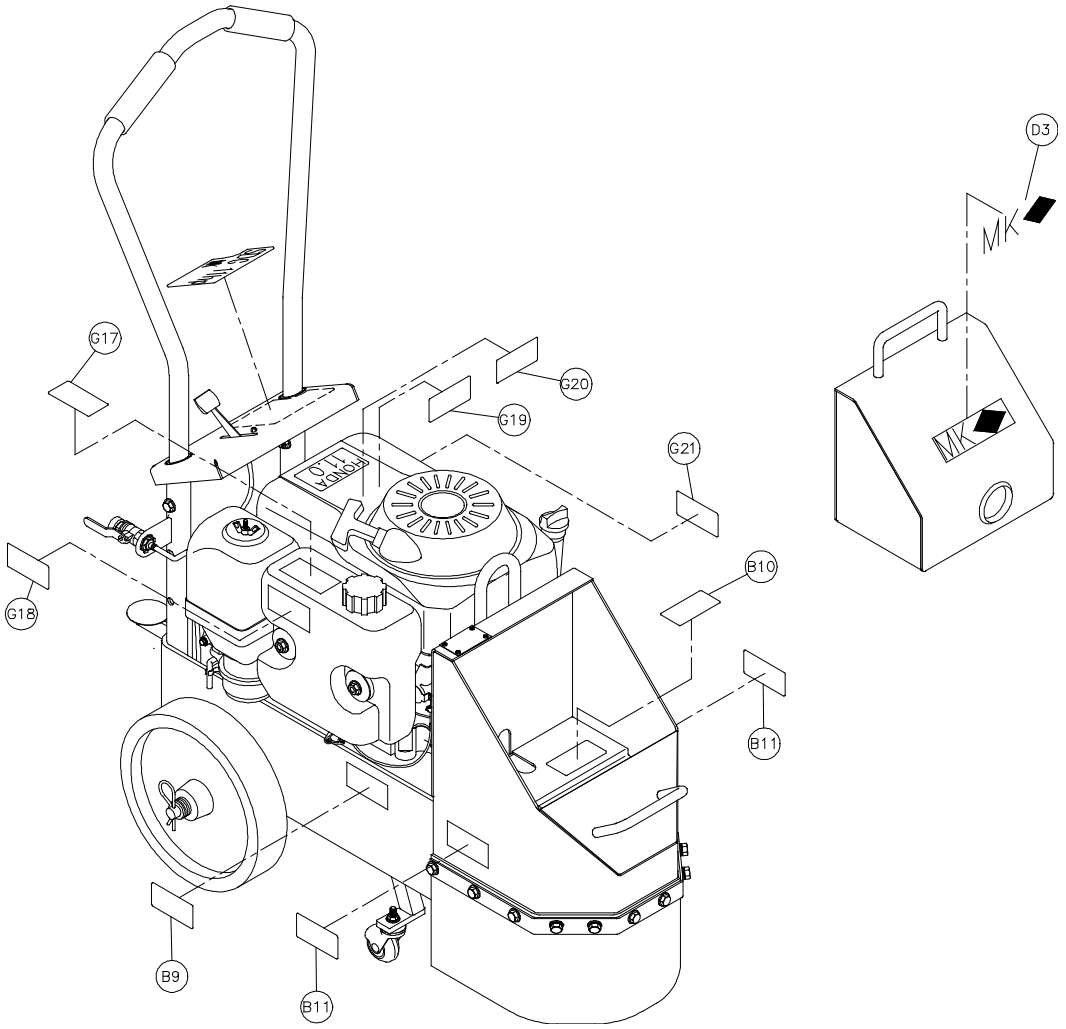
(G17)

(G18)


DANGER
The exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
PART # 155581
(G19)

(G20)

CAUTION
Accidental start hazard. Disconnect spark plug when servicing engine. Engine may start if blade shaft is turned.
PART # 155579
(G21)



PRODUCT SPECIFICATIONS

The MK-SDG is a versatile unit. Operated and used according to this manual, the MK-SDG will provide years of dependable service.

Features

- Uses either a 10 or 20 segment 10" diameter diamond grinding discs to level, smooth or clean the top surface of concrete slabs. (FIGURE 3)
- Provides a smoother finish compared to other methods such as scarifiers or scabblers.
- Two-position wheel carriage for grinding and easy transport. (FIGURE 4)
- Front taper for enhanced visibility.
- Removable nose weight and handle for easy transportation. (FIGURE 5)
- Dust shroud helps contain grinding debris.
- Works on concrete slabs, terrazzo, brick, stone and ceramic tile floors.

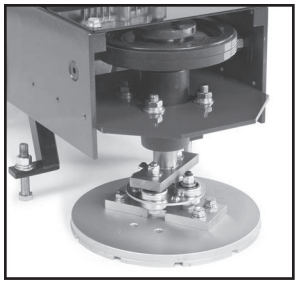


FIGURE 3

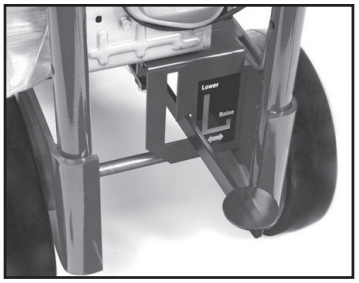


FIGURE 4

FIGURE 5

Specifications

Specifications for the MK-SDG are listed in Table 2 below.

Model	MK-SDG-11	MK-SDG E1
Engine	Honda	Baldor / Leeson
Horseposer	11 HP	1-1/2 HP
Disc RPM	980	980
Disc Capacity	10" (254mm)	10" (254mm)
Ballast	70 lbs. (32kg)	70 lbs. (32kg)
Weight	199 lbs. (90kg)	232 lbs. (105kg)
LxWxH (inches)	40” x 16” x 42”	40” x 16” x 42”
LxWxH (mm)	1016 x 406 x 1066	1016 x 406 x 1066
Part #	157377	157892

Table 2

Accessories Included with MK-SDG
10” MK-1010S Grinding Head

UNPACKING and TRANSPORT

UNPACKING

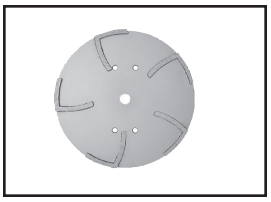
⚠ CAUTION Use proper lifting techniques when lifting the MK-SDG

If not already done, remove the MK-SDG, accessory box from the carton.

CONTENTS

In your container, you will find
One (1) MK-SDG
One (1) Grinding Discs
One (1) MK-SDG Owners Manual
One (1) Honda Owners Manual
One (1) warranty card

MK-SDG



Grinding Disc

Owners Manual

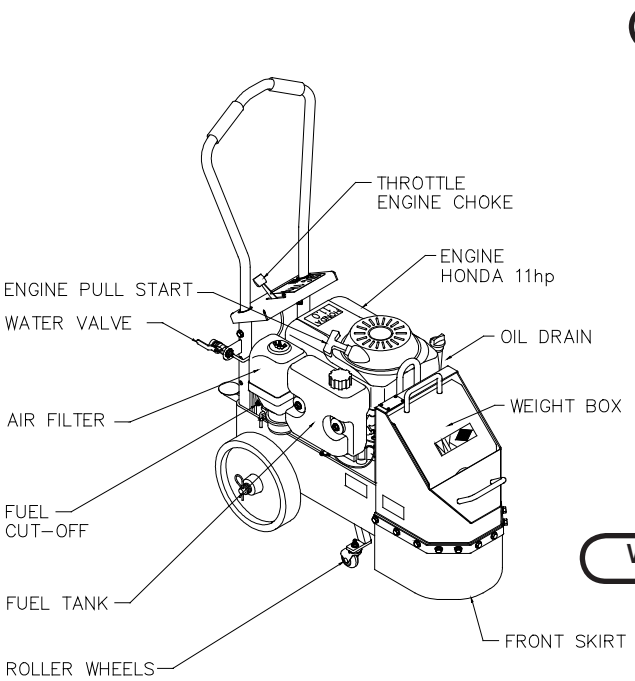
Honda Owners Manual

Warranty Card

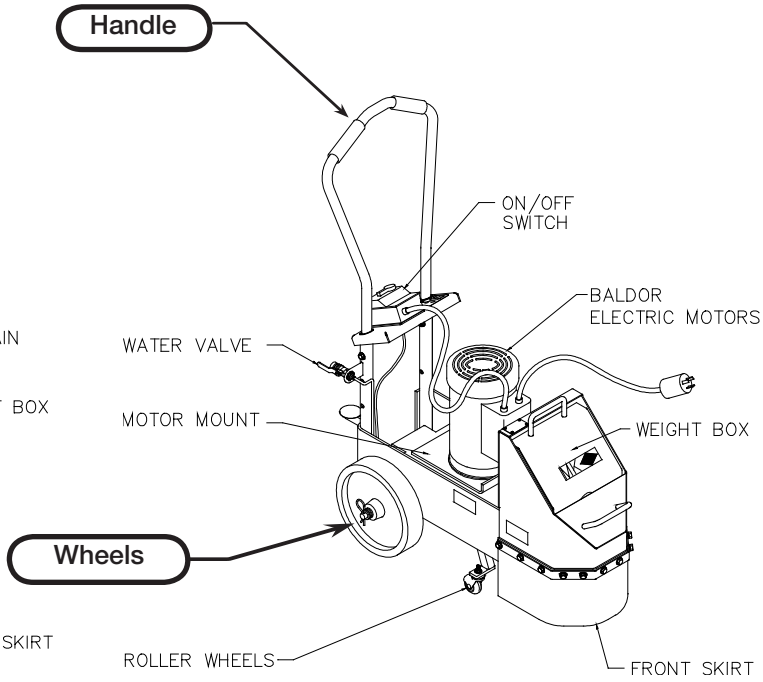
TRANSPORT:

⚠ CAUTION

1. The MK-SDG weighs approximately two hundred and thirty two (232) pounds; use care when transporting. The unit needs to be rolled from one location to another.
2. Never try to lift the unit by yourself.



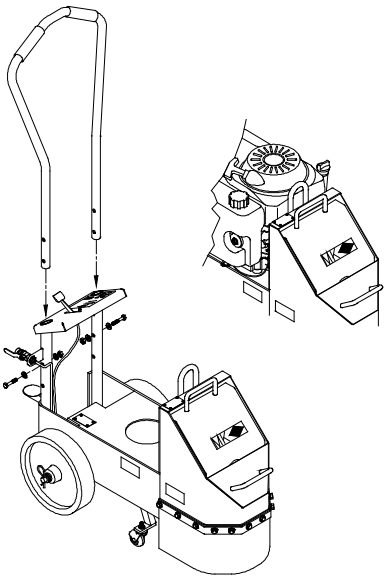
GAS GRINDER



ELECTRIC GRINDER

ASSEMBLY:

Follow the diagram below to prepare your MK-SDG for operation.

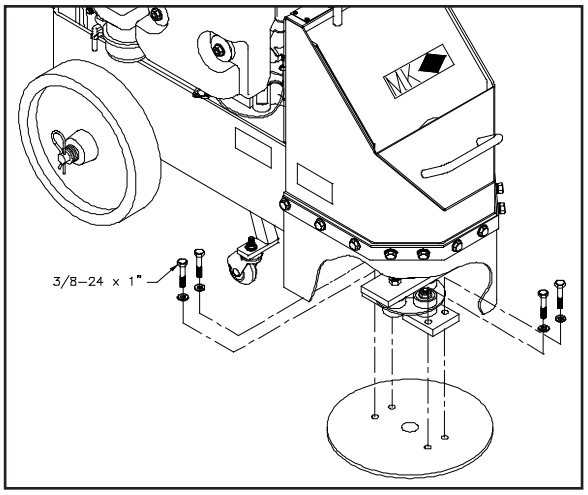


Handlebar Adjustment

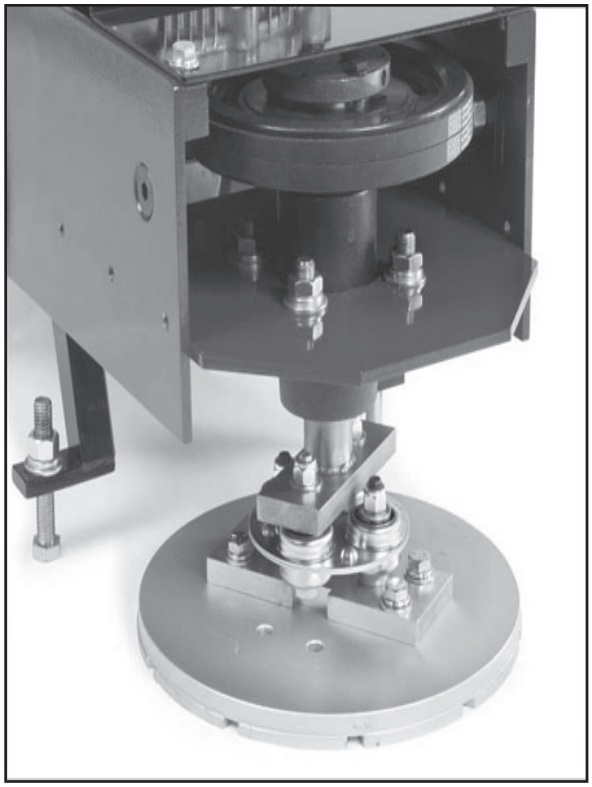
Adjust the Handlebar, as shown on the Figure to the right, for ease of operation and comfort of the user.

Grinding Discs Installation

You need to install the grinding discs before operation of the MK-SDG



The Figure to the left shows the components needed to install the discs.



Surface finished with the MK-SDG-11

FOR GASOLINE ENGINE

BEFORE STARTING

1. Use correct diamond wheel for grinding conditions.
2. Ensure wheel mountings are clean and bolts are tightened securely.
3. Check water jet for adequate flow.
4. Place grinding wheels on surface.
5. Start and warm up engine.
6. If application requires water, adjust water flow.
7. Adjust speed as required by application.

DAILY MAINTENANCE

1. Check engine oil level.
2. Check and clean air filter.
3. Lubricate grease points.
4. Check belt tension
5. Check for fluid leaks and loose or damaged parts.

FOR ELECTRIC MOTOR

BEFORE STARTING

1. Choose correct diamond wheels for the job condition.
2. Ensure grinding wheel montings are clean and the retaining bolts are securely tightened.
3. Check for adequate water flow. (If water is required.)
4. Be sure the grinding wheels are positioned over the work area.
5. Adjust water flow. (If application requires water)
6. While holding securely to the handlebar, turn power switch to "ON" position.

DAILY MAINTENANCE

1. Lubricate grease points.
2. Check belt tension.

1. CLEAN UP

⚠ CAUTION Engine parts are extremely hot following use. Allow engine to cool 1/2 hour before cleaning. Use care during cleanup to avoind injury.

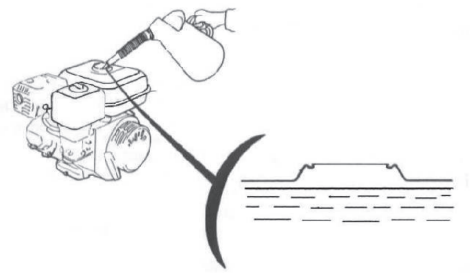
NOTE:
1. To extend operating life, the MK-SDG should be cleaned following every use.
2. Using a garden hose or pressure washer can force water into the air cleaner or muffler opening.
3. Use care when cleaning around electrical components.

2. FILLING FUEL TANK

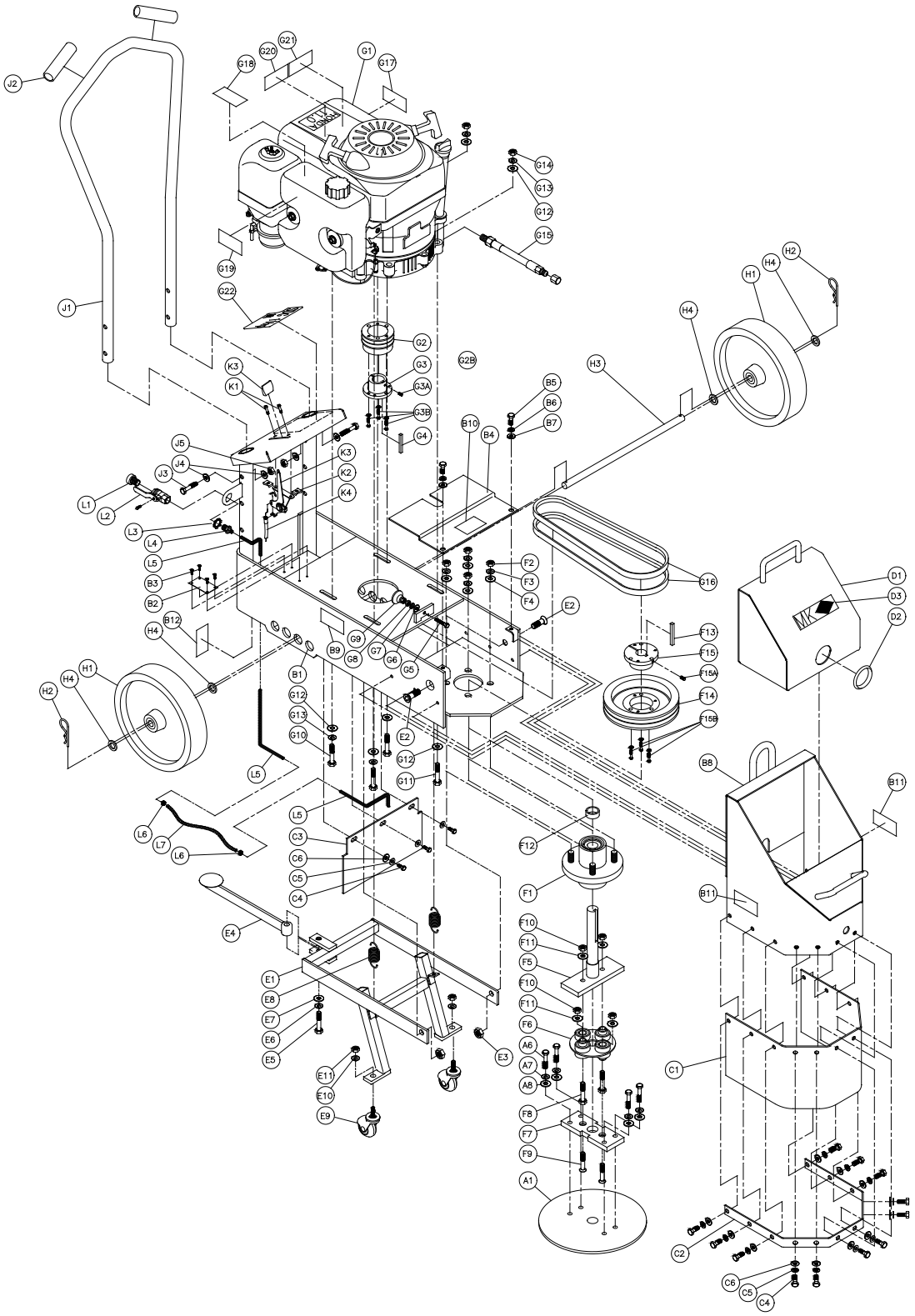
⚠WARNING

1. Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel.
2. To fuel, stop engine if running, and allow it to cool.
3. Refuel in a well-ventilated area.
4. Keep gasoline away from appliance pilot lights, barbecues, electric appliances, power tools, etc.
5. Wipe up spills immediately

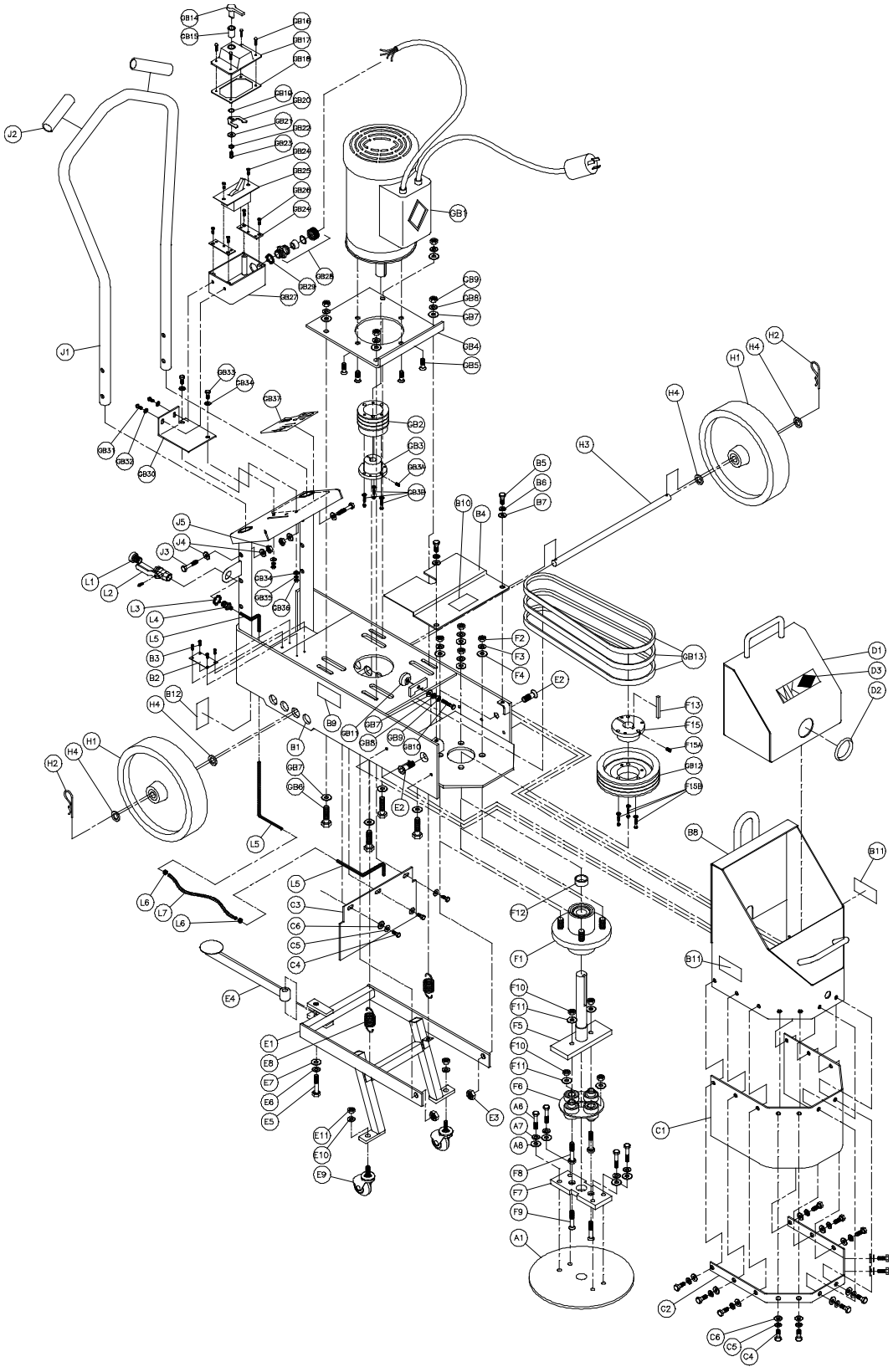
NOTE:
1. Fuel can damage paint and plastic. Be careful not to spill fuel when filling the fuel tank.
2. Damage caused by spilled fuel IS NOT covered under the warranty.
3. DO NOT use stale or contaminated gasoline, or an oil/gasoline mixture.
4. Use unleaded gasoline with a pump octane rating of 86 or higher.



MK-SDG EXPLODED VIEW

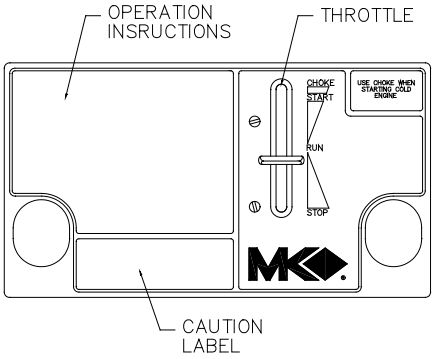


EXPLODED VIEW WITH GAS ENGINE

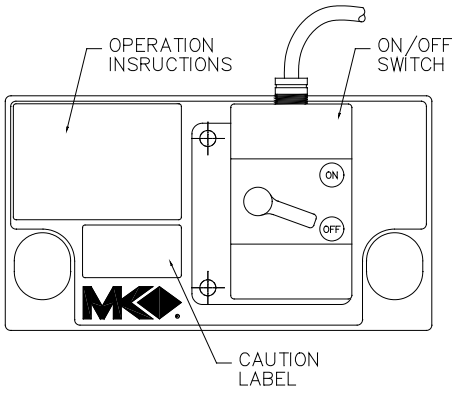


EXPLODED VIEW WITH ELECTRIC MOTOR

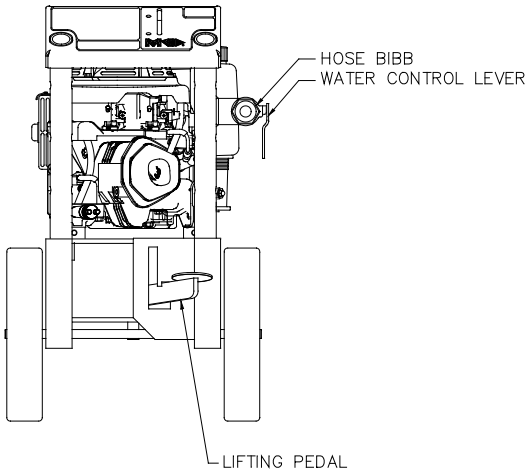
MK-SDG EXPLODED VIEW



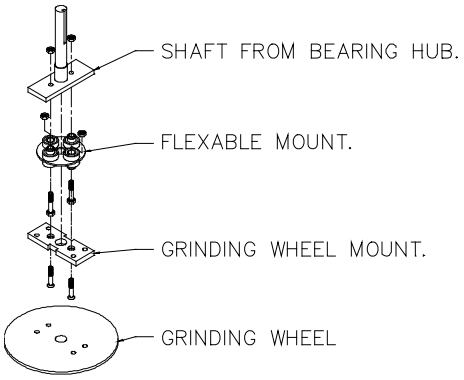
CONSOLE – GAS

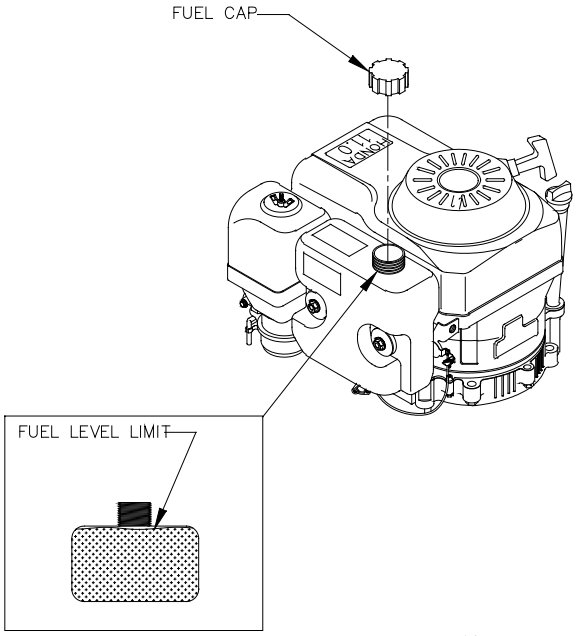


CONSOLE – ELECTRIC



BACK SIDE





FUEL TANK

STAND PARTS LIST:

Item	Description	Qty	Part No.
A	**Assembly, Accessory Pack**		
A1	Grinding Wheels 10” (Reference only)	0	Reference
A2	Pallet (not shown)	1	158259
A3	Carton, SDG-11 Grinder (not shown)	1	158272
A4	Tube, Owner’s Manual (not shown)	1	155419
A5	Manual, Owner’s (not shown)	1	158273
A6	Bolt, Hex HD, 3/8-24 x 1 Grinding Disk, Mounting	4	157803
A7	Washer, 3/8 Split Lock	4	150925
A8	Washer, 3/8 SAE Flat	4	150923
B	**Assembly, Frame**		
B1	Frame Weldment	1	157780
B2	Plate, Serial Number	1	157500
B3	#7 X 5/16 Drive Screw	2	157849
B4	Tray, Weight	1	157785
B5	Screw, 5/16-18 x 3/4 Hex Head	2	151369
B6	Washer, 5/16 lock, split	2	151747
B7	Washer, 5/16 SAE Flat	2	151754
B8	Housing, Weight	1	157783
B9	Label, Caution, Belt Tension	2	155583
B10	Label, Caution, Guards in Place	1	155587
B11	Label, Caution, Hands and Feet	2	155585
B12	Label, Lower/Raise	1	158141
C	**Assembly, Skirt**		
C1	Skirt, Front	1	157817
C2	Skirt, Retainer	1	157819
C3	Skirt, Rear	1	157818
C4	Screw, 5/16-18 x 3/4 Hex Head	15	151369
C5	Washer, 5/16 lock, split	15	151747
C6	Washer, 5/16 SAE Flat	15	151754
D	**Assembly, Weight Box**		
D1	Box, Weight	1	157784
D2	Cap, Weight Box	1	157890
D3	Label, 1 ¾ x 5” MK Logo	1	154335
E	**Assembly, Lifting Frame**		
E1	Frame, Lifting	1	157781
E2	Screw, Flat HD SOC. 1/2-13 x 1”	2	157822
E3	Nut, Center Lock 1/2-13	2	153943
E4	Pedal, Lifting Frame	1	157782
E5	Bolt, 1/2-13 x 2 Hex Head	1	153533
E6	Washer, Lock, Split 1/2	1	153524
E7	Washer, Flat SAE 1/2	1	150924
E8	Spring, Lifting Frame	2	157821
E9	Wheel, 2” Caster (LA-E2-XD)	2	160455
E10	Washer, 5/16 lock, split	2	151747
E11	Nut, 5/16-18 Hex	2	101196
F	**Assembly, Components, Hub**		
F1	Hub, 1” Assembly (3 ½ C)	1	157820
F2	Nut, Jam 1/2-20	4	154460

MK-SDG PARTS LIST (cont...)

F3	Washer, Lock, Split 1/2	4	153524
F4	Washer, Flat SAE 1/2	4	150924
F5	Shaft, 1" Dia Large Gear	1	157302
F6	Flexible Mount, Morflex (Morse 402 Insert)	1	157411
F7	Mount, Grinding Wheel	1	157407
F8	Screw, Hex HD Cap 3/8-16 x 2 1/2	2	156030
F9	Screw, Flt. HD. Sc. 3/8-16 x 2 1/2	2	157562
F10	Nut, 3/8-16, Hex Nylock	4	152505
F11	Washer, 3/8 SAE Flat	4	150923
F12	Spacer, 1 ¼" OD, 1" I.D. x 1 3/8"	1	158257
F13	Key, Square, 1/4 x 1/4 x 1 1/2"	1	157560
F14	Pulley, 2G3V 6.9 SDS	1	160098
F15	QD x 1" SD (D1 reverse mount sheave bushing)	1	157899
G	**Assembly, Engine, 11HP Honda**		
G1	Engine, Honda GX340k2dx3	1	157067
G2	Pulley, 2G3V 2.20 JA	1	160099
G3	QD x 1" SH (sheave bushing)	1	157900
G4	Key, Square, 1/4 x 1/4 x 1 1/2"	1	157560
G5	Screw, 3/8-16 x 1 3/4" Hex Head Tap	1	158398
G6	Washer, 3/8 SAE Flat	1	150923
G7	Washer, 3/8 Split Lock	1	150925
G8	Nut, 3/8-16 Hex	1	101188
G9	Mount, 3/8-16 Swivel	1	158371
G10	Screw, 5/16-24 x 1" Hex Head	2	157646
G11	Screw, 5/16-18 x 1 3/4" Hex Head Cap	2	150919
G12	Washer, 5/16 SAE Flat	4	101352
G13	Washer, 5/16 Split Lock	4	151747
G14	Nut, 5/16-18 Hex	2	101196
G15	Hose, Oil Drain (20mm)	1	157577-04
G16	Belt, 3VX 375	2	157891
G17	Label, Caution, Hot Surface, 1.5 x 3.0	1	155578
G18	Label, Warning, Refueling, 1.5 x 3.0	1	155580
G19	Label, Danger, California, 1.5 x 3.0	1	155581
G20	Label, Danger, Lethal Exhaust, 1.5 x 3.0	1	155582
G21	Label, Caution, Sparkplug	1	155579
G22	Label, Control Panel (Gas)	1	157888
GB	**Assembly, 115/230V Motor**		
GB1	Motor, 115/230 volt, 14 amp 60Hz 1 1/2 hp C-Face, Baldor	1	160048
GB2	Pulley, 3V 2.50 JA QD (sheave)	1	160191
GB3	QD x 5/8" SH (sheave bushing)	1	160050
GB4	Mount, Motor	1	160049
GB5	Screw, 3/8-16 x 3/4 Self-Lock, Flat Head Soc	4	160079
GB6	Screw, 3/8-16 x 1 1/4" Hex Head Cap	4	150774
GB7	Washer, 3/8 SAE Flat	8	150923
GB8	Washer, 3/8 Split Lock	4	150925
GB9	Nut, 3/8-16 Hex	5	101188
GB10	Screw, 3/8-16 x 1 3/4" Hex Head Tap	1	158398
GB11	Mount, 3/8-16 Swivel	1	158371
GB12	Pulley, 3V 500 SDS QD (sheave)	1	160193
GB13	Belt, 3VX 355	3	160385
GB14	Lever, Actuator, 30A Switch Box	1	159540
GB15	Bushing, Nylon, 30A Switch Box	1	158799
GB16	Screw, 6-32 X 5/8 Pan Head Phillips Machine	4	157393
GB17	Cover, 30A Switch Box	1	159539

GB18	Gasket, 30A Switch Box	1	159491
GB19	Seal, Urethane, 30A Switch Box	1	159492
GB20	Lever, On/Off, 30A Switch Box	1	159490
GB21	Washer, #10 SAE Flat	1	154369
GB22	Washer, #10 Lock, Internal Teeth	1	158336
GB23	Screw, 10-24 X 5/16 Pan Head Phillips Machine	1	159494
GB24	Screw, 6-32 X 5/16 Flat Head Phillips Machine	6	159493
GB25	Switch, 30A/2HP/120V/DPST	1	159488
GB26	Plate, Mounting, 30A Switch	1	159489
GB27	Box, Top / Side Entry, 30A Switch	1	159865
GB28	Connector, Cord ½ (Appleton CG-5050)	1	151307
GB29	Nut, Steel Lock 1/2" NPT	1	152729
GB30	Bracket, MK 212 Switch	1	159864
GB31	Screw, 1/4-20 x 1/2 Pan Head Phillips Cap	2	155452
GB32	Washer, 1/4 Split Lock	2	152591
GB33	Screw, 5/16-18 x 3/4 Hex Head Cap	2	151369
GB34	Washer, 5/16 Flat SAE	4	151754
GB35	Washer, 5/16 Split Lock	2	151747
GB36	Nut, 5/16-18 Hex	2	101196
GB37	Label, Control Panel (Electric)	1	160046
GC	**Assembly, 400/440V Motor**		
GC1	Motor, 400/440 volt, 10 amp 50HZ 7.5hp,1725rpm,3ph, C-face Baldor	1	160190
GC2	Pulley, 3VX x 3 x 2.65 x 1-1/8	1	160625
GC3	Screw, set cup 1/4-20 x 5/16	2	154226
GC4	Pulley, 3V 500 SDS QD (sheave)	1	160193
GC5	Belt, 3VX 355	3	160385
GC6	Screw, 1/2-13 x 1 1/4 Hex Head	4	153532
GC7	Washer, Lock, Split 1/2	4	153524
GC8	Washer, Flat SAE 1/2	4	150924
GC9	Screw, 3/8-16 x 1 3/4" Hex Head Tap	1	158398
GC10	Washer, 3/8 SAE Flat	1	150923
GC11	Washer, 3/8 Split Lock	1	150925
GC12	Nut, 3/8-16 Hex	1	101188
GC13	Mount, 3/8-16 Swivel	1	158371
GC14	Bracket, Switch (Ref 227269)	1	160110
GC15	Screw, 1/4-20 x 1/2 Hex Head Cap	2	152608
GC16	Washer, 1/4 Flat SAE	4	151915
GC17	Washer, 1/4 Split Lock	4	152591
GC18	Nut, 1/4-20 Hex Head	2	151893
GC19	Screw, ¼-20 x 1/2 Pan Head Phillips Cap	2	155452
GC20	Label, Control Panel (Electric)	1	160046
GC21	Key, Square, 1/4 x 1/4 x 1 1/2"	1	157560
H	**Assembly, Axle**		
H1	Wheel, 10"Dia. x 2.5"	2	157889
H2	Cotter Pin, Steel Hairpin, 5/8"- 3/4" x .148" x 2 11/16"	2	158228
H3	Axle, 5/8" Dia.	1	157887
H4	Washer, 5/8 SAE Flat	4	158350
J	**Assembly, Handlebar**		
J1	Handlebar	1	157786
J2	Handgrip, .875 x 4.25 Neoprene	2	229413
J3	Screw, 3/8-16 X 2 Hex Head Cap	2	153485
J4	Washer, 3/8 SAE Flat	4	150923
J5	Nut, 3/8-16 Nylock Hex	2	152505

K	Assembly, Throttle, Honda		
K1	Screw, 10-24 X 1/2” Pan Head Phillips Cap	2	151744
K2	Nut, 10-24 Clip	2	155407
K3	Assembly, Throttle Head	1	155406
K4	Cable, Throttle, Honda	1	156640
L	**Assembly, Water Valve**		
L1	Fitting, Brass, 1/2 MNPT x Garden Hose Swivel	1	151322
L2	Valve, Shut-Off, 1/2 FNPT x 1/2 FNPT	1	150843
L3	Nut, 1/2 NPT	1	152729
L4	Fitting, Brass, 1/2 MNPT x 1/4 Compression Fit	1	157563
L5	Tube, ¼ OD Water	2’	157564
L6	Clamp, 5/8 Hose	2	151198
L7	Hose, Water Vinyl 1/4 x 3/8	6’	132951

THEORY OF DIAMOND BLADES

Diamond blades do not really cut; they grind the material through friction. Diamond crystals, often visible at the leading edge and sides of the rim/segment, remove material by scratching out particles of hard, dense materials, or by knocking out larger particles of loosely bonded abrasive material.

This process eventually cracks or fractures the diamond particle, breaking it down into smaller pieces. As a result, a diamond blade for cutting soft, abrasive material must have a hard metal matrix composition to resist this erosion long enough for the exposed diamonds to be properly utilized.

Conversely, a blade for cutting a hard, non-abrasive material must have a soft bond to ensure that it will erode and expose the diamonds embedded in the matrix. These simple principles are the foundation of “controlled bond erosion”.

Types of Cutting

There are two basic types of cutting-Dry or Wet. The choice of which type of blade to use depends on:

- The requirements of the job
- The machine/tool utilizing the diamond blade
- The preference of the operator

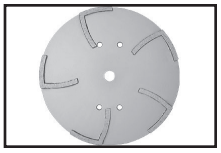
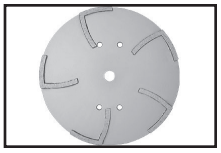
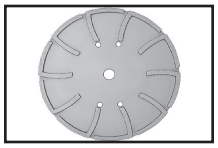
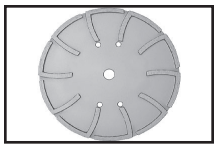
In the case of DRY cutting, the overwhelming popularity and quantity of hand-held saws and the flexible nature of MK Diamond blades to professionally handle most ceramic, masonry, stone and concrete materials, make the DRY cutting blade a very attractive tool. When using a DRY blade, the user must be aware of distinct operating practices to ensure optimum performance. DRY cutting blades require sufficient airflow about the blade to prevent overheating of the steel core. This is best accomplished by shallow, intermittent cuts of the material with periods of “free-spinning” (for several seconds) between each cut, to maximize the cooling process.

For WET cutting applications, MK has the exact blade to compliment both the material to be cut and the wet cutting machine to be used. During cutting operations, liberal amounts of water act as a coolant to support the cutting effectiveness and longevity of the WET blade. Additionally, using water adds to the overall safety of cutting operations by keeping the dust signature down.

Know All You Can About the Material You Wish to Cut

ACCESSORIES

ACCESSORIES

ITEM	NUMBER	DESCRIPTION	
1.	151925	10 Segments 1010 S soft Bond; Hard Material; Cured or Old	
2.	158151	10 Segments 1010 H Hard Bond; Soft Material; Green Asphalt	
3.	151926	20 Segment 1020 S soft Bond; Hard Material; Cured or Old	
4.	158182	20 Segments 1010 H Hard Bond; Soft Material; Green Asphalt	

ORDERING & RETURN INSTRUCTIONS

ORDERING INFORMATION

You may order MK Diamond products through your local MK Diamond distributor or, you may order direct from MK Diamond.

NOTE: There is a $25.00 minimum order when ordering direct from MK Diamond. All purchases must be made using VISA or MasterCard.

When ordering direct from MK Diamond, please have the following information ready before calling:

- The Model Number of the saw
- The Serial Number of the saw
- Where the saw was purchased and when
- The Part Number for the part(s) being ordered
- The Part Description for the part(s) being ordered

All parts may be ordered by calling toll free to – 800 421-5830 or 310 539-5221 and asking for Customer Service. For technical questions, call – 800 474-5594.

RETURN MATERIALS POLICY

To expedite the service relative to the return of a product purchased through MK Diamond, please observe the following:

NOTE: When returning all items, they must have been purchased within the previous twelve (12) months.

- Have the Model Number of the saw
- Have the Serial Number of the saw
- Have the location of where the saw was purchased
- Have the date when the saw was purchased
- Contact Customer Service for approval to return the item(s)
- Obtain a Returned Goods Number (RGA) authorizing the return
- Follow the packaging instructions in the following section
- Ensure your item(s) are prepaid to the destination

For returned items, call toll free to – 800 421-5830 or 310 539-5221 and ask for Customer Service. For technical questions, call – 800 474-5594 or 310 257-2845.

PACKAGING INSTRUCTIONS

- Remove the Blade guard and Support Angle Assembly
- Dry the saw before shipping
- When packing, include the following: MK-SDG, Diamond Blade, Blade guard and Support Angle Assembly and Adjustable Cutting Guide (Other Accessories are not required)
- Package the unit in its original container or one of comparable size (do not ship the unit partially exposed)
- Ensure all parts are secured in the packaging to prevent moving

AUTHORIZED SERVICE CENTERS

For quicker repair time, you may contact MK Diamond Customer Service, toll free, at 800 421-5830 or 310 539-5221 for the Authorized Service Center closest too you, or visit our web site at www.mkdiamond.com.
For technical questions, call – 800 474-5594.

MK DIAMOND PRODUCTS, INC
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TORRANCE, CA 90509-2808
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www.mkdiamond.com

MK-SINGLE DISC GRINDER

Single Disc Grinder
owner's manual &
operating instructions

Revision 09/05
Manual Part No. 158273